

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019800

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ A61K45/00, 48/00, 31/7088, 41/00, A61P35/00, 35/02, 35/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A61K45/00, 48/00, 31/7088, 41/00, A61P35/00, 35/02, 35/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CAPLUS (STN), MEDLINE (STN), BIOSIS (STN), EMBASE (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2001-502553 A (PHONE-POULENC RORER S.A.), 27 February, 2001 (27.02.01), Particularly, Claims; page 5, lines 3 to 12; examples & EP 941252 A1 & WO 1998/18825 A1	1, 6 2-5
X A	JP 2001-511815 A (Canji, Inc.), 14 August, 2001 (14.08.01), Particularly, Claims; page 11, line 3 to page 12, line 7; examples & EP 969720 A1 & WO 1998/35554 A1 & US 2003/0060434 A1	1, 6 2-5

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
29 March, 2005 (29.03.05)

Date of mailing of the international search report
12 April, 2005 (12.04.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	JP 2002-531396 A (Pfizer Products Inc.), 24 September, 2002 (24.09.02), Particularly, Claims; page 28, line 11 to page 29, line 23; examples & EP 1137418 A1 & WO 2000/032175 A1 & US 2002/0048271 A1	1, 6 2-5
X A	JP 10-512559 A (RHONE-POULENC RORER S.A.), 02 December, 1998 (02.12.98), Particularly, Claims; page 12, line 17 to page 14, line 5; examples & EP 800399 A1 & WO 1996/22101 A1 & US 2001/0021395 A1	1, 6 2-5
X A	JP 10-503361 A (Board of Regents, the University of Texas System), 31 March, 1998 (31.03.98), Particularly, Claims; page 7, line 19 to page 9, line 3; examples & JP 10-503476 A & EP 725791 A1 & EP 575518 A1 & EP 760675 A1 & EP 1157702 A1 & WO 1995/015680 A1 & US 6017524 A & US 5747469 A & US 6069134 A & US 6143290 A	1, 6 2-5
A	WO 2002/052007 A1 (LOCOMOGENE, INC.), 04 July, 2002 (04.07.02), (Family: none)	1-6
A	WO 2003/008573 A2 (MILNER, Anne, Josephine), 30 January, 2003 (30.01.03), & JP 2004-535813 A & EP 1432799 A2 & US 2004/235171 A1	1-6

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Box No. II

Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 7-22

because they relate to subject matter not required to be searched by this Authority, namely:

Claims 7 to 22 pertain to methods for treatment of the human body by therapy and thus relate to a subject matter which this International Searching Authority is not required, under the provisions of Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.

2. ☐ Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III

Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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<Subject of search>

Claims 1 and 2 relate to medicinal compositions containing compounds defined by desired properties "a substance promoting the activity of the cancer suppressor gene p53 or the protein p53" and "a substance inhibiting the expression and/or function of synoviolin". Although claims 1 and 2 involve any compounds having these properties, it is recognized that only small parts of the claimed compounds are supported by the description in the meaning within PCT Article 6 and disclosed therein in the meaning within PCT Article 5.

Although the common technical knowledge at the point of the application is taken into consideration, the scopes of the compounds having the properties "a substance promoting the activity of the cancer suppressor gene p53 or the protein p53" and "a substance inhibiting the expression and/or function of synoviolin" cannot be specified. Thus, claims 1 and 2 do not comply with the requirement of clearness under PCT Article 6 too.

Such being the case, the search was made exclusively on the relationship between the effect of promoting the activity of the cancer suppressor gene p53 or the protein p53 and cancer treatment and medicinal compositions efficacious in treating cancer which contains siRNA or shRNA for genes encoding synoviolin as presented in detail in the description and specified in claims 3 to 5.

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